Delete claims 1, 11-13 and 25-26

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Amend claims 2-10, 14-24 and 27-28 and add new claims 29-38 as set forth below.

*2 (amended). The method of claim [1] <u>31</u>, further comprising the step of decoding said [present] vehicle <u>present</u> location information received by said vehicle [locator] <u>location service or paging service</u>.

*3 (amended). The method of claim [1] 31/, further comprising the step of causing said cellular telephone to communicate said present location information for said [missing] vehicle at least twice in response to receipt of said/page request by said controller/modem.

*4 (amended). The method of claim [1] 31, further comprising the step of causing said cellular telephone to communicate said present location information for said [missing] vehicle once in response to receipt of said page request by said controller/modem.

*5 (amended). The method of claim [1] 31, further comprising the step of displaying said present location of said [missing] vehicle on a map or visual display after said present location information is received by said vehicle location [center] service or paging service.

*6 (amended). The method of claim [1] <u>31</u>, further comprising the step of causing said [receiver processor] <u>receiver/processor</u> to occupy an inactive mode and to reduce its electrical power consumption, except when responding to receipt of [an] <u>said</u> interrogation from said controller/modem.

[7] (amended). The method of claim 6, further comprising the step of periodically activating said receiver/processor for a selected time interval and causing said [receiver] receiver/processor to redetermine its present location.

*8 (amended). The method of claim [1] 31, further comprising the step of concealing the presence of at least one of said receiver/processor, said antenna and said cellular telephone [antenna] on said vehicle.

*9 (amended). The method of claim [1731, further comprising the step of choosing said vehicle location signal antenna and receiver/processor to be a GPS signal antenna and receiver/processor that receive[s] time-coded GPS signals from one or more satellites and determine[s] said vehicle location from these signals.

*10 (amended). The method of claim [1] 31, further comprising the step of choosing said vehicle location signal anterna and receiver/processor that receive[s] time-coded LORAN signals from a plurality of LORAN signal transmitters and determine[s] said vehicle location from these signals.

*14 (amended). The method of claim [13] 34, further comprising the step of choosing, as said vehicle trigger event, the unauthorized movement of said vehicle, as sensed by said event sensor.

*15 (amended). The method of claim [13] 34, further comprising the steps of:

choosing as said <u>event</u> sensor a vehicle security alarm that senses occurrence of an unauthorized action affecting said vehicle; and

choosing, as said trigger event, activation of this security alarm.

*16 (amended). The method of claim [13] 34, further comprising the step of decoding said [present] vehicle present location information received by said vehicle [locator] location service or paging service.

*17 (amended). The method of claim [13] 34, further comprising the step of causing said cellular telephone to communicate said present location information for said [missing] vehicle at least twice in response to occurrence of said vehicle

trigger event.

*18 (amended). The method of claim [13] 34, further comprising the step of causing said cellular telephone to communicate said present location information for said [missing] vehicle once in response to occurrence of said vehicle trigger event.

*19 (amended). The method of claim [1/3] 34, further comprising the step of displaying said present location of said [missing] vehicle on a map or other visual display after said present location information is received by said vehicle location [center] service or paging service.

*20 (amended). The method of claim [13] 34, further comprising the step of causing said [receiver processor] receiver/processor to occupy an inactive mode and to reduce its electrical power consumption, except when responding to receipt of [an] said interrogation from said controller/modem.

- 21. The method of claim 20, further comprising the step of periodically activating said receiver/processor for a selected time interval and causing said receiver/processor to redetermine its present location.
- *22 (amended). The method of claim [13] <u>34</u>, further comprising the step of concealing the presence of at least one of said antenna, said receiver/processor and said cellular telephone [antenna] on said vehicle.
- *23 (amended). The method of claim [13] 34, further comprising the step of choosing said vehicle location signal antenna and receiver/processor to be a GPS signal antenna and receiver/processor that receive[s] time-coded GPS signals from one or more satellites and determine[s] said/vehicle location from these signals.
- *24 (amended). The method of claim [13] 34, further comprising the step of choosing said vehicle location signal antenna and receiver/processor to be a

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LORAN signal antenna and receiver/processor that receive[s] time-coded LORAN signals from a plurality of LORAN signal transmitters and determine[s] said vehicle location from these signals.

*27 (amended). Apparatus for determining the present location of a missing vehicle, the apparatus comprising:

a GPS signal antenna and receiver/processor, connected to the antenna, attached to a vehicle, to receive and process GPS signals to determine the present location of the vehicle to which the antenna and receiver/processor are attached;

paging response means for receiving a specified paging signal and, in response thereto, issuing a paging response means output signal;

controller means, connected to the GPS receiver/processor and to the paging response means, for receiving the paging response means output signal and, in response thereto, <u>for</u> issuing a first output signal that is received by the GPS receiver/processor that commands the receiver/processor to determine and issue as an output signal the present location of the [antenna] <u>receiver/processor</u>, and for receiving the receiver/processor output/signal representing present location of the [antenna] <u>receiver/processor</u> and issuing this present location information as a second output signal;

a cellular [transmitter] <u>telephone</u>, connected to the controller means, for receiving the controller means second output signal and, in response thereto, <u>for</u> transmitting the controller means second output signal to a selected telephone number; and

a power supply to deliver electrical power to at least one of [the antenna,] the receiver/processor, the paging response means, the controller means, and the cellular [transmitter] telephone [and associated antenna],

where [the antenna,] the receiver/processor, the paging responder, the controller means, and the cellular [transmitter] telephone are all carried on the vehicle whose present location is to be determined.

(amended). Apparatus for determining the present location of a missing vehicle, the apparatus comprising)

a GPS signal antenna and receiver/processor, connected to the antenna, attached to a vehicle, to receive and process GPS signals to determine the present location of the vehicle to which the antenna and receiver/processor are attached;

an event sensor that determines when a selected trigger event involving the vehicle has occurred and issuing a sensor output signal when that event occurs;

controller means, connected to the GPS receiver/processor and to the event sensor, for receiving the event sensor output signal and, in response thereto, <u>for</u> issuing a first output signal that is received by the GPS receiver/processor that commands the receiver/processor to determine and issue as an output signal the present location of the [antenna] <u>receiver/processor</u>, and for receiving the receiver/processor output signal representing present location of the [antenna] <u>receiver/processor</u> and issuing this present location information as a second output signal;

a cellular [transmitter] telephone, connected to the controller means, for receiving the controller means second output signal and, in response thereto, for transmitting the controller means second output signal to a selected telephone number; and

a power supply to deliver electrical power to at least one of [the antenna,] the receiver/processor, the event sensor, the controller means and the cellular transmitter [and associated antenna],

where [the antenna,] the receiver/processor, the event sensor, the controller means, and the cellular [transmitter] <u>telephone</u> are all carried on the vehicle whose present location is to be determined.

*29 (new). The apparatus of claim 27, wherein the presence of at least one of said receiver/processor and said cellular relephone is concealed on said vehicle.

*30 (new). The apparatus of claim 28, wherein the presence of at least one of said receiver/processor and said cellular telephone is concealed on said vehicle.

*31 (new). A method for determining the present location of a missing vehicle, the method comprising the steps of

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providing a vehicle with a vehicle location signal antenna and receiver/processor, connected to the antenna, where the antenna receives position location signals and the receiver/processor uses these signals to determine the present location of the vehicle on which the antenna and the receiver/processor are located:

providing the vehicle with a page responder to respond to a page request broadcast by a vehicle location service or paging service;

providing the vehicle with a cellular telephone that may be activated to place a telephone call to a selected telephone number;

providing the vehicle with a controller/modem that is electrically connected to, and controls the operation of, the receiver/processor, the page responder and the cellular telephone;

when the vehicle is determined to be missing, causing the vehicle location service or paging service to broadcast a page requesting the present location of the missing vehicle;

causing the page responder in the vehicle to receive the page request and, in response thereto, to cause the controller/modem to interrogate the receiver/processor concerning the present location of the vehicle;

causing the receiver/processor to obtain information on the present location of the vehicle and to provide this information for the controller/modem; and

causing the controller/modem to cause the cellular telephone to contact a selected vehicle location service or paging service and to communicate information on the vehicle present location to the vehicle location service or paging service,

whereby information on the present location of the vehicle is made available to an owner or operator of the missing vehicle.

*32 (new). A method for determining the present location of a missing vehicle, the method comprising the steps of:

providing a vehicle with a vehicle location signal receiver/processor that receives position location signals from two or more location-sensing sensors located on the vehicle and uses these signals to determine the present location of the vehicle on which the antenna and the receiver/processor are located, where the

receiver/processor comprises:

a plurality of gyroscopes and associated vehicle angular orientation sensors attached to the vehicle to determine and issue output signals indicating the present angular orientation of the vehicle;

a vehicle velocity sensor to determine and issue an output signal indicating the present velocity of the vehicle; and

a signal processor that receives the output signals from the vehicle angular orientation sensors and the vehicle velocity sensor and determines the present location of the vehicle from these signals;

providing the vehicle with a page responder to respond to a page request broadcast by a vehicle location service or paging service;

providing the vehicle with a cellular telephone that may be activated to place a telephone call to a selected telephone number;

providing the vehicle with a controller/modem that is electrically connected to, and controls the operation of, the receiver/processor, the page responder and the cellular telephone;

when the vehicle is determined to be missing, causing the vehicle location service or paging service to broadcast a page requesting the present location of the missing vehicle;

causing the page responder in the vehicle to receive the page request and, in response thereto, to cause the controller/modem to interrogate the receiver/processor concerning the present location of the vehicle;

causing the receiver/processor to obtain information on the present location of the missing vehicle and to provide this information for the controller/modem; and

causing the controller/modem to cause the cellular telephone to contact a selected vehicle location service or paging service and to communicate information on the vehicle present location to the vehicle location service or paging service,

whereby information on the present location of the vehicle is made available to an owner or operator of the missing vehicle.

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/33 (new). A method for determining the present location of a missing vehicle, the method comprising the steps of:

providing a vehicle with a vehicle location signal receiver/processor that receives position location signals from two or more location-sensing sensors located on the vehicle and uses these signals to determine the present location of the vehicle on which the antenna and the receiver/processor are located, where the receiver/processor comprises:

a plurality of local magnetic field angular orientation sensors attached to the vehicle to determine and issue output signals indicating the present angular orientation of the vehicle;

a vehicle velocity sensor to determine and issue an output signal indicating the present velocity of the vehicle; and

a signal processor that receives the output signals from the vehicle angular orientation sensors and the vehicle velocity sensor and determines the present location of the vehicle from these signals;

providing the vehicle with a page responder to respond to a page request broadcast by a vehicle location service or paging service;

providing the vehicle with a collular telephone that may be activated to place a telephone call to a selected telephone number;

providing the vehicle with a controller/modem that is electrically connected to, and controls the operation of, the receiver/processor, the page responder and the cellular telephone;

when the vehicle is determined to be missing, causing the vehicle location service or paging service to broadcast a page requesting the present location of the missing vehicle;

causing the page responder in the vehicle to receive the page request and, in response thereto, to cause the controller/modem to interrogate the receiver/processor concerning the present location of the vehicle;

causing the receiver/processor to obtain information on the present location of the missing vehicle and to provide this information for the controller/modem; and



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causing the controller/modem to cause the cellular telephone to contact a selected vehicle location service or paging service and to communicate information on the vehicle present location to the vehicle location service or paging service,

whereby information on the present location of the vehicle is made available to an owner or operator of the missing vehicle.

*34 (new). A method for determining the present location of a vehicle that has been moved or tampered with in an unauthorized manner, the method comprising the steps of:

providing a vehicle with a vehicle location signal antenna and receiver/processor, connected to the antenna, where the antenna receives position location signals and the receiver/processor uses these signals to determine the present location of the vehicle on which the antenna and the receiver/processor are located;

providing the vehicle with an event sensor to sense occurrence of a selected vehicle trigger event involving the vehicle;

providing the vehicle with a cellular telephone that may be activated to place a telephone call to a selected telephone number;

providing the vehicle with a controller/modern that is electrically connected to, and controls the operation of, the receiver/processor, the event sensor and the cellular telephone;

when the sensor determines that a vehicle trigger event has occurred, causing the controller/modem to interrogate the receiver/processor concerning the present location of the vehicle;

causing the receiver/processor to obtain information on the present location of the vehicle and to provide this information for the controller/modem; and

causing the controller/modem/to cause the cellular telephone to contact a selected vehicle location service or/paging service and to communicate information on the vehicle present location to the vehicle location service or paging service,

whereby information on the present location of the vehicle is made available to an owner or operator of the vehicle.

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*35 (new). A method for determining the present location of a missing vehicle, the method comprising the steps of:

providing a vehicle with a vehicle location signal receiver/processor that receives position location signals from two or more location-sensing sensors located on the vehicle and uses these signals to determine the present location of the vehicle on which the antenna and the receiver/processor are located, where the receiver-processor comprises:

a plurality of gyroscopes and/associated vehicle angular orientation sensors attached to the vehicle to determine and issue output signals indicating the present angular orientation of the vehicle;

a vehicle velocity sensor to determine and issue an output signal indicating the present velocity of the vehicle; and

a signal processor that receives the output signals from the vehicle angular orientation sensors and the vehicle velocity sensor and determines the present location of the vehicle from these signals;

providing the vehicle with an event sensor to sense occurrence of a selected vehicle trigger event involving the vehicle;

providing the vehicle with a cellular telephone that may be activated to place a telephone call to a selected/telephone number;

providing the vehicle with a controller/modem that is electrically connected to, and controls the operation of, the receiver/processor, the event sensor and the cellular telephone;

when the sensor determines that a vehicle trigger event has occurred, causing the controller/modem/to interrogate the receiver/processor concerning the present location of the vehicle;

causing the receiver/processor to obtain information on the present location of the vehicle and/to provide this information for the controller/modem; and

causing the controller/modem to cause the cellular telephone to contact a selected vehicle location service or paging service and to communicate information on the vehicle present location to the vehicle location service or paging service,

whereby information on the present location of the vehicle is made available to an owner or operator of the vehicle.

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*26 (new). A method for determining the present location of a missing vehicle, the method comprising the steps of:

providing a vehicle with a vehicle location signal receiver/processor that receives position location signals from two or more location-sensing sensors located on the vehicle and uses these signals to determine the present location of the vehicle on which the antenna and the receiver/processor are located, where the receiver-processor comprises:

a plurality of local magnetic field angular orientation sensors attached to the vehicle to determine and issue output signals indicating the present angular orientation of the vehicle;

a vehicle velocity sensor to determine and issue an output signal indicating the present velocity of the vehicle; and

a signal processor that receives the output signals from the vehicle angular orientation sensors and the vehicle velocity sensor and determines the present location of the vehicle from these signals;

providing the vehicle with an event sensor to sense occurrence of a selected vehicle trigger event involving the vehicle;

providing the vehicle with a cellular telephone that may be activated to place a telephone call to a selected telephone number;

providing the vehicle with a controller/modem that is electrically connected to, and controls the operation of, the receiver/processor, the event sensor and the cellular telephone;

when the sensor determines that a vehicle trigger event has occurred, causing the controller/modem to interrogate the receiver/processor concerning the present location of the vehicle;

causing the receiver/processor to obtain information on the present location of the vehicle and to provide this information for the controller/modem; and

causing the controller/modem to cause the cellular telephone to contact a selected vehicle location service or paging service and to communicate information on the vehicle present location to the vehicle location service or paging service,

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whereby information on the present location of the vehicle is made available to an owner or operator of the vehicle.

31. A method for determining the present location of a missing vehicle, the method comprising the steps of:

providing a vehicle with a page responder to receive a paging request concerning the present location of the vehicle and, in response thereto, to issue a page responder output signal; and

providing the vehicle with location determination and communication means, connected to the page responder, for receiving the page responder output signal and, in response thereto, for determining the present location of the vehicle and transmitting this present location information to a selected signal receiver for display of this present location.

38. A method for determining the present location of a missing vehicle, the method comprising the steps of:

providing a vehicle with an event sensor to sense occurrence of a selected event concerning the vehicle and, in response thereto, to issue an event sensor output signal; and

providing the vehicle with location determination and communication means, connected to the event sensor, for receiving the event sensor output signal and, in response thereto, for determining the present location of the vehicle and transmitting this present location information to a selected signal receiver for display of this present location.

Reply To Examiner's Remarks

Claims 2-10, 14-24 and 27-28, as amended, and new claims 29-38 are pending for consideration.

The Examiner rejects claims 1-28 under 35 U.S.C. 112, second paragraph, as indefinite because of use of the phrases: (1) "receiver/processor" in claims 1, 7, 9-13, 21 and 23-28; (2) "modem/controller" in claims 1, 6, 13 and 20; and (3) "vehicle location service or paging service" in claim 1.